



LOCTITE® EDAG PE 007

April 2025

PRODUCT DESCRIPTION

LOCTITE® EDAG PE 007 provides the following product characteristics:

Technology	Thermoplastic
Appearance	Silver
Filler type	Silver and silver chloride blend
Solvent	MEK
Product benefits	<ul style="list-style-type: none">• Conductive• Extremely flexible• Process ease
Cure	Heat or room temperature drying
Application	Conductive ink
Typical assembly applications	Body contact pads, Medical sensors, ECG/EKG disposable electrodes and TENS pads

LOCTITE® EDAG PE 007 is a blend of finely divided silver and silver chloride particles in a thermoplastic resin. It is designed to provide controlled electrical properties on flexible substrates and is suitable for applications using flexographic or rotogravure printing techniques. This product is compatible with EDAG silver and carbon inks. LOCTITE® EDAG PE 007 meets ANSI/AAMI standards for Pregelled ECG Disposable Electrodes (when used with appropriate gel).

TYPICAL PROPERTIES OF UNDRIED MATERIAL

Solids content, %	50
Viscosity, Zahn Cup #2, seconds	28
Density, kg/L	1.12
Theoretical coverage, at 25µm, m²/kg	5.91
Shelf life at 25°C, from date of qualification in original seal, year	1
Flash point, °C	-5
Silver : Silver Chlorite ratio, wt	8 : 2

TYPICAL DRYING PERFORMANCE

Recommended drying cycle

2 minutes at 107°C or 24 hours at 25°C

Percent volatiles

VOC, g/L	677
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The above cure profile is a guideline recommendation. These conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF THE DRIED MATERIAL

Electrical properties

Sheet resistance, Ohm/sq/25µm 30 min at 25°C then 10 min at 107°C	0.067
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GENERAL INFORMATION

Please consult the Safety Data Sheet (SDS) for safe handling information of this product.

Directions for use

1. LOCTITE® EDAG PE 007 is supplied ready for use.
2. LOCTITE® EDAG PE 007 should be thoroughly stirred prior to use. Avoid rapid stirring as this causes air entrapment.
3. Do not allow any metal surface to come in contact with this product.
4. Do not freeze.
5. Keep product container tightly closed when not in use.
6. Keep away from heat, sparks, and open flame.
7. Protect material from direct sunlight.
8. Ground and bond containers when transferring materials.

Clean up

The equipment can be cleaned with MEK, Acetone or similar solvents.

Storage

Store product in the unopened container in a cool dry well ventilated area. Storage information may be indicated on the product container labeling.

Optimal storage: 5 to 30°C. Storage below 5°C or greater than 30°C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.



Conversions $(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$ $\text{kV/mm} \times 25.4 = \text{V/mil}$ $\text{mm} / 25.4 = \text{inches}$ $\mu\text{m} / 25.4 = \text{mil}$ $\text{N} \times 0.225 = \text{lb}$ $\text{N/mm} \times 5.71 = \text{lb/in}$ $\text{N/mm}^2 \times 145 = \text{psi}$ $\text{MPa} \times 145 = \text{psi}$ $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$ $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$ $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$ $\text{mPa}\cdot\text{s} = \text{cP}$ **Disclaimer**

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